

Curriculum Vitae

Dr. Ram Prakash Dwivedi
(Foreign Professor)
Department of Information &
Communication Engineering,
Inha University, Incheon, South
Korea- 402751.

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Education:

Ph. D: Information and Communication Engineering (2011)

Graduate School of Information Technology, Inha University, Incheon, South Korea

Research Advisor: Prof. Dr. El-Hang Lee, Thesis Title: "Nanowire waveguiding, plasmonic modulators and thin films for integrated photonics".

M. Tech.: Laser Science and Applications (1997)

First Division with Distinction (78.5 %)

D. A. V. V., Indore (M. P.) India.

Project Title : "Carbon Dioxide Laser (2kW, CW) Metal Sheet Cutting".

Project Place : Fine Laser Cut Pvt. Ltd. Khed Shivapur, Pune, India.

M.Sc.: Physics (Electronics) (1994)

First Division (65.2 %)

Dr. R.M.L. Avadh University

Faizabad (U.P.) India

B.Sc.: Major-Physics, Maths (1992)

First Division (64.8 %)

Dr. R.M.L. Avadh University

Faizabad (U.P.) India

Intermediate (1989)

First Division (68.0 %)

Subjects: Phys. Chem. Maths. English

U. P. Board India

High School (1987)

First Division (73.5 %)

Subjects: Science, Maths, Biology

U. P. Board India

Professional Experience:

Teaching- 9 Years, Research-6 Years, Company- 8 Months

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S. No	University/Institute	Country	Designation	Duration (DD/MM/YY)	Nature of Job
1	Department of Information & Communication Engineering, Inha University	South Korea	Foreign Professor	01-03-2012 to till today	Teaching: Engineering Electromagnetics, Numerical Analysis using MATLAB, Opto-Electronics. Research: Nano-photonics and Plasmonics
2	Department of Information & Communication Engineering, Inha University	South Korea	Postdoctoral Researcher	01-03-2011 to 28-02-2012	Research: Nano-photonics and Plasmonics

$$\begin{array}{r} 10.7 \\ 0.6 \\ \hline 11.3 \end{array}$$
 Total = 11.3 Yrs

$$\begin{array}{r} 8.7 \\ 2.0 \\ \hline 10.7 \end{array}$$

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3	Department of Applied Physics, Debu University, Awassa	Ethiopia	Lecturer	08-11-2002 to 08-04-2006	Teaching and Lab: Mechanics & Heat, Laser Science, Modern Physics
4	Department of Physics, Dehradun Institute of Technology	India	Assistant Professor & Lecturer	26-10-1998 to 30-10-2002	Teaching and Lab: Engineering Physics
5	Shiva Mediums, Dehradun	India	Marketing Executive	08-12-1997 to 08-07-1998	Supplying Optical Instruments to Researchers
6	Department of Opto-Electronics, Sh. Vaishnav Polytechnic, Indore	India	Lecturer	01-07-1997 to 05-12-1997	Teaching and Lab: Opto-Electronics and Engineering Physics
7	Department of Physics, L.B.S. Degree College Gonda (U.P.)	India	Lecturer	08-12-1994 to 30-04-1995	Teaching and Lab: Heat & Thermodynamics, Basic Electronics

Publications: International: 05

7.5
1.2
8.7

S. No	Journal	Year	Authorship	Title	Impact Factor	Citations till 2012
1	Optics and Laser Technology 44(2012) 2130-2134	2012	First Author	A Compact Plasmonic Tunable Filter using Elasto-optic Effect	1.5	
2	Optics Communications 284 (2011) 1418-1423	2011	First Author	Plasmonic Modulator utilizing three parallel Metal-Dielectric-Metal Waveguide Directional Coupler and Elasto-optic Effects	1.5	04
3	Optics Communications 283 (2010) 4085-4089	2010	First Author	A theoretical model to explain the mechanism of lightwave propagation through non-metallic nanowires	1.5	
4	Journal of Material Science 43 (2008)1159-1161	2008	Second Author	Enhancement of the electrical properties of Al-doped ZnO films deposited on ZnO-buffered glass substrates by using an ultrathin aluminum underlayer	2.1	08
5.	Journal of Material Science: Material in Electronics 19 (2008) 981-985	2008	Second Author	IZO/Al/GZO multilayer films to replace ITO films .	1.08	14

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Conferences: International

- **Ram Prakash Dwivedi** and El-Hang Lee, "Light wave propagation through a non-metallic nanowire: Size dependence waveguide dispersion and slowed light" PHOTONICS 2010, 10th International Conference on Fiber Optics and Photonics 11 – 15 December 2010, IIT Guwahati, Guwahati INDIA

Symposium:

- The 4th International Symposium on VLSI Photonics, October 26, 2007, Inha University, Incheon, South Korea.

Research Interest:

- **Integrated Photonics** : Design, theory, simulation and fabrication of micro/nano photonics devices based on Nano-Wire waveguiding, Plasmonics and Photonic Crystals for the application in Integrated Photonics.
- **Material Science**: Fabrication and analysis of Transparent Conducting Oxides films for flat panel displays.

Computer Skills:

- **Operating System**: Windows 7, XP 2007, 2003: MS-Word, Excel, PPT, Origin, Paint, Visio etc.
- **Programming Language**: MATLAB, FDTD and COMSOL: FEM simulations.

Project/Tutorial/Teaching Materials:

• **Projects:**

1. Korea Science and Engineering Foundation (KOSEF) through the grant for the Integrated Photonics Technology Research Center (2010-0001473) at the Optics and Photonic Elite Research Academy (OPERA), Inha University, Incheon, South Korea.
2. I worked for Inha University research grant to Material Science department in year 2006.

• **Tutorials:**

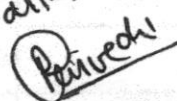
1. Tutorials to B. Tech. first year students for their basic Physics course at D.I.T dehradun, India.
2. Tutorials to B.Sc. Physics students for Mechanics, Modern Physics and Statistical Physics at Debu University, Ethiopia.

• **Teaching Materials:**

I prepared lab manuals and teaching notes for Mechanics and Optics to B. Sc. (Physics) students which are approved by the Department of Applied Physics at Debu University, Ethiopia.

Projects Done as a Mentor:

- I supervised to six B.Sc. (Physics) students for their final year project work in the area of Electronics and Optics at Debu University, Ethiopia.

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Scholarship/Awards:

• Scholarships:

1. Ekikrat scholarship by State Govt. (U.P) for 5 years from 1980 to 1985.
2. National Scholarship for 5 years by State Govt. (U.P.) India from 1987 to 1992.
3. Korean Govt. Scholarship in PhD from 2007 to 2011.

• Awards:

1. IEEE Photonics Society Award in Photonics 2010 conference held at IIT Guwahati, India.
2. Second best student's ambassador award from Inha University, South Korea.
3. College topper award in High School (73.5 % marks): J. J. Inter College Ikauna, Shrawasti (U.P.) India.

References:

S.No.	Name	Address	Telephone/ Fax/ E-mail
1	Dr. Brijesh Kumar (Prof. & Head)	School of Physics Devi Ahilya University, Khandwa Road Indore(M.P.), India	☎: +91-731-2762153(O) ☎: ✉: dr.brijeshkhare@gmail.com
2	Dr. Mesfin Abayneh	Head, Dept. of Applied Physics, Debub University, P.O. Box No.05, Awassa, Ethiopia	☎: +251 (6) 209437 (O) ☎: +251 (6) 205421 ✉: mesfin_abayneh@hotmail.com
3	Prof. Dr. Chongmu Lee	Department of Material Science & Engineering, Inha University, Incheon- 402751. South Korea	☎: +82-32-860-7536 ☎: +82-32-860-7547 ✉: cmlee@inha.ac.kr
4	Prof. Dr. El-Hang Lee	Graduate School of Information Technology, Inha University, Incheon- 402751. South Korea	☎: +82-32-860-8804 ☎: +82-32-865-8845 ✉: ehlee@inha.ac.kr

Personal Profile:

- **Father's Name** : Ram Sagar Dwivedi
- **Sex** : Male
- **Marital Status** : Married
- **Language known** : English and Hindi
- **Permanent Address:** C/O Mr. R. S. Dwivedi (Retd. Lect.), Teacher Colony, Near Govt. Hospital, Ikauna, Distt- Shrawasti, (U.P.), India PIN-271846. Phone: +91-5252-255839
- **Date of Birth** : March 15, 1973
- **Nationality** : Indian
- **Passport Number** : K2862891
- **Ethnicity** : Asian

I hereby declare that the information given above is correct to the best of my knowledge.

(Ram Prakash Dwivedi)

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